PHYSICAL COLLOCATION BELL ATLANTIC : DC, DE, MD, NJ, PA, VA & WV FCC - 1

21-Aug-01

DC POWER - WEIGHTED SUMMARY

BASED ON WEIGHTED AVERAGE EXPECTED LIVES OF THE POWER EQUIPMENT OTHER TAX FACTOR ADJUSTED AS PER FCC PARAGRAPH 52 MELDED FOR LESS THAN 60 AMPS AND GREATER THAN 60 AMPS

	A	<u>B</u>	<u>c</u>
	ITEM	SOURCE	BA - SOUTH
1	MONTHLY RATE LESS THAN OR EQUAL TO 60 AMPS	COST STUDY	\$19.08
2	WEIGHTING FACTOR		0.75
3	WEIGHTED MONTHLY RATE LESS THAN OR EQUAL TO 60 AMPS	LINE 1 X LINE 2	\$14.31
4	MONTHLY RATE GREATER THAN OR EQUAL TO 60 AMPS	COST STUDY	\$19.24
5	WEIGHTING FACTOR		0.25
6	WEIGHTED MONTHLY RATE GREATER THAN OR EQUAL TO 60 AMPS	LINE 4 X LINE 5	\$4.81
7	TOTAL SUMMED MONTHLY RATE PER AMP BASED ON THE <u>WEIGHTED AVERAGE</u> EXPECTED LIVES OF THE POWER EQUIP & OTHER TAX FAC ADJ	LINE 3 + LINE 6	\$19.12

EXHIBIT PAGE 1 OF 4

PHYSICAL COLLOCATION BELL ATLANTIC : DC, DE, MD, NJ, PA, VA & WV FCC - 1

			- WEIGHTED -							Ī	
	<u>A</u>	<u>B</u>	<u>c</u>	D	<u>E</u>	E	<u>G</u>	Ħ	ı	ī	
	ITEM	SOURCE	BA-DC	BA-DE	BA-MD	BA-NJ	BA-PA	BA-VA	BA-WV	BA-SOUTH	
	1 TOTAL UNIT INVESTMENT	COST STUDY	\$26.10	\$21.38	\$129.95	\$222.76	\$238.08	\$122.53	\$39.37	\$800.15	
:	2 DEPRECIATION	COST STUDY	\$0.95	\$0.78	\$4.88	\$8.21	\$8.80	\$4.59	\$1.45	\$29.66	
;	3 COST OF MONEY	COST STUDY	\$1.55	\$1.29	\$7.73	\$13.30	\$14.10	\$7.30	\$2.37	\$47.64	
	4 INCOME TAX	COST STUDY	\$0.82	\$0.66	\$3.80	\$6.90	\$7.51	\$3.49	\$1.23	\$24.41	
4	5 MAINTENANCE	COST STUDY	\$1.50	\$1.36	\$6.08	\$12.22	\$12.58	\$6.28	\$2.34	\$42.37	
(6 ADMINISTRATION	COST STUDY	\$1.63	\$0.62	\$5.57	\$9.62	\$9.50	\$4.77	\$1.48	\$33.18	
	7 OTHER TAX	COST STUDY	\$0.17	\$0.17	\$2.28	\$2.76	\$2.12	\$1.00	\$0.42	\$8.92	
	8 ANNUAL DIRECT COST	SUM (LINE 2 THRU LINE 7)	\$6.62	\$4.89	\$30.35	\$53.01	\$54.62	\$27.43	\$9.29	\$186.19	
	9 MONTHLY COST	LINE 8 / 12	\$0.55	\$0.41	\$2.53	\$4.42	\$4.55	\$2.29	\$0.77	\$15.52	
1	0 OVERHEAD LOADING FACTOR	REGULATORY	1.2300	1.2300	1.2300	1.2300	1.2300	1.2300	1.2300	1.2300	
1	11 MONTHLY RATE	LINE 9 x LINE 10	\$0.68	\$0.50	\$3.11	\$5.43	\$5.60	\$2.81	\$0.95	\$19.08	
	12 DIRECT COST TO RATE	LINE 9 / LINE 11	0.81	0.81	0.81	0.81	0.81_	0.81	0.81	0.81	

EXHIBIT PAGE 2 OF 4

PHYSICAL COLLOCATION BELL ATLANTIC : DC, DE, MD, NJ, PA, VA & WV FCC - 1

13-Mar-01 DC POWER - GREATER THAN 60 AMPS

		- WEIGHTED -							
A	<u>B</u>	<u>c</u>	D	Ē	<u>F</u>	<u>G</u>	Ħ	I	Ā
ITEM	SOURCE	BA-DC	BA-DE	BA-MD	BA-NJ	BA-PA	BA-VA	BA-WV	BA-SOUTH
1 TOTAL UNIT INVESTMENT	COST STUDY	\$26.06	\$21.54	\$131.20	\$223.74	\$240.24	\$123.66	\$40.15	\$806.60
2 DEPRECIATION 3 COST OF MONEY	COST STUDY COST STUDY	\$0.95 \$1.55	\$0.78 \$1.30	\$4.93 \$7.81	\$8.25 \$13.36	\$8.88 \$14.23	\$4.63 \$7.37	\$1.48 \$2.42	\$29.90 \$48.03
4 INCOME TAX	COST STUDY	\$0.82	\$0.67	\$3.84	\$6.93	\$7.58	\$3.52	\$1.26	\$24.61
5 MAINTENANCE 6 ADMINISTRATION	COST STUDY COST STUDY	\$1.50 \$1.62	\$1.37 \$0.63	\$6.14 \$5.63	\$12.27 \$9.66	\$12.70 \$9.58	\$6.34 \$4.81	\$2.39 \$1.51	\$42.71 \$33.44
7 OTHER TAX	COST STUDY	\$0.17	\$0.17	\$2.30	\$2.77	\$2.14	\$1.00	\$0.43	\$8.99
8 ANNUAL DIRECT COST	SUM (LINE 2 THRU LINE 7)	\$6.61	\$4.92	\$30.64	\$53.24	\$55.11	\$27.68	\$9.47	\$187.68
9 MONTHLY COST	LINE 8 / 12	\$0.55	\$0.41	\$2.55	\$4.44	\$4.59	\$2.31	\$0.79	\$15.64
10 OVERHEAD LOADING FACTOR	REGULATORY	1.2300	1.2300	1.2300	1.2300	1.2300	1.2300	1.2300	1.2300
11 MONTHLY RATE	LINE 9 x LINE 10	\$0.68	\$0.50	\$3.14	\$5.46	\$5.65	\$2.84	\$0.97	\$19.24
12 DIRECT COST TO RATE	LINE 9 / LINE 11	0.81	0.81	0.81	0.81	0.81	0.81	0.81	0.81

EXHIBIT PAGE 3 OF 4

PHYSICAL COLLOCATION BELL ATLANTIC: DC, DE, MD, NJ, PA, VA & WV FCC - 1

DC POWER - LESS THAN OR EQUAL TO 60 AMPS

	<u>A</u>	В	<u>C</u>	D	<u>E</u>	<u>E</u>	<u>G</u>	Ħ	<u>!</u>
				COST OF	INCOME			OTHER	
LINE NO.	ITEM	SOURCE	DEPRECIATION	CAPITAL	TAX	MAINT.	ADMIN.	TAXES	TOTAL
1	WASHINGTON, DC	WP 1.0, PG 1, LINES 2 THRU 7	\$26.11	\$42.56	\$22.49	\$41.21	\$44.64	\$4 .55	\$181.55
2	BA-SOUTH WEIGHTING	WP 8.0, PG 1, LINE 26C	<u>0.03644</u>	<u>0.03644</u>	0.03644	0.03644	0.03644	0.03644	0.2186
3	BA-DC WEIGHTED COST	LINE 1 X LINE 2	\$0.95	\$1.55	\$0.82	\$1.50	\$1.63	\$0.17	\$6.62
4	DELAWARE	WP 2.0, PG 1, LINES 2 THRU 7	\$30.35	\$50.24	\$25.85	\$52.93	\$24.25	\$6.76	\$190.37
5	BA-SOUTH WEIGHTING	WP 8.0, PG 1, LINE 26D	<u>0.02566</u>	0.02566	<u>0.02566</u>	0.02566	0.02566	0.02566	0.1540
6	BA-DE WEIGHTED COST	LINE 4 X LINE 5	\$0.78	\$1.29	\$ 0.66	\$1.36	\$0.62	\$0.17	\$4.89
7	MARYLAND	WP 3.0, PG 1, LINES 2 THRU 7	\$30.04	\$47.60	\$23.39	\$37.45	\$34.31	\$14.03	\$186.83
8	BA-SOUTH WEIGHTING	WP 8.0, PG 1, LINE 26E	0.16245	0.16245	0.16245	0.16245	0.16245	0.16245	0.9747
9	BA-MD WEIGHTED COST	LINE 7 X LINE 8	\$4.88	\$7.73	\$3.80	\$6.08	\$5.57	\$2.28	\$30.35
10	NEW JERSEY	WP 4.0, PG 1, LINES 2 THRU 7	\$28.13	\$45.55	\$23.62	\$41.86	\$32.94	\$9.46	\$181.56
11	BA-SOUTH WEIGHTING	WP 8.0, PG 1, LINE 26F	0.29196	0.29196	0.29196	0.29196	0.29196	0.29196	<u>1.7518</u>
12	BA-NJ WEIGHTED COST	LINE 10 X LINE 11	\$8.21	\$13.30	\$6.90	\$12.22	\$9.62	\$2.76	\$53.01
13	PENNSYLVANIA	WP 5.0, PG 1, LINES 2 THRU 7	\$30.34	\$48.59	\$25.88	\$43.36	\$32.73	\$7.32	\$188.21
14	BA-SOUTH WEIGHTING	WP 8.0, PG 1, LINE 26G	0.29019	0.29019	0.29019	0.29019	0.29019	0.29019	<u>1.7411</u>
15	BA-PA WEIGHTED COST	LINE 13 X LINE 14	\$8.80	\$14.10	\$7.51	\$ 12.58	\$9.50	\$2.12	\$54.62
16	VIRGINIA	WP 6.0, PG 1, LINES 2 THRU 7	\$29.50	\$46.96	\$22.45	\$40.40	\$30.67	\$6.40	\$176.40
17	BA-SOUTH WEIGHTING	WP 8.0, PG 1, LINE 26H	0.15549	<u>0.15549</u>	0.15549	0.15549	<u>0.15549</u>	<u>0.15549</u>	0.9329
18	BA-VA WEIGHTED COST	LINE 10 X LINE 11	\$4.59	\$7.30	\$3.49	\$6.28	\$4.77	\$1.00	\$27.43
19	WEST VIRGINIA	WP 7.0, PG 1, LINES 2 THRU 7	\$38.37	\$62.74	\$32.54	\$61.87	\$39.03	\$11.05	\$245.60
20	BA-SOUTH WEIGHTING	WP 8.0, PG 1, LINE 261	0.03782	0.03782	0.03782	<u>0.03782</u>	0.03782	0.03782	0.2269
21	BA-WV WEIGHTED COST	LINE 13 X LINE 14	\$1.45	\$2.37	\$1.23	\$2.34	\$1.48	\$0.42	\$9.29

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PHYSICAL COLLOCATION BELL ATLANTIC: DC, DE, MD, NJ, PA, VA & WV FCC - 1

	<u>A</u>	<u>B</u>	Ē	Ō	<u>E</u>	<u>E</u>	<u>G</u>	Ħ	Ţ
				COST OF	INCOME			OTHER	
LINE NO.	<u>ITEM</u>	SOURCE	DEPRECIATION	CAPITAL	TAX	MAINT.	ADMIN.	TAXES	TOTAL
1	WASHINGTON, DC	WP 1.1, PG 1, LINES 2 THRU 7	\$26.07	\$42.51	\$22.46	\$41.16	\$44.58	\$4.54	\$181.31
2	BA-SOUTH WEIGHTING	WP 8.0, PG 1, LINE 26C	<u>0.03644</u>	0.03644	<u>0.03644</u>	0.03644	0.03644	0.03644	0.21864
3	BA-DC WEIGHTED COST	LINE 1 X LINE 2	\$0.95	\$1.55	\$0.82	\$1.50	\$1.62	\$0.17	\$6.61
4	DELAWARE	WP 2.1, PG 1, LINES 2 THRU 7	\$30.57	\$50.60	\$26.03	\$53.31	\$24.43	\$6.81	\$191.75
5	BA-SOUTH WEIGHTING	WP 8.0, PG 1, LINE 26D	0.02566	0.02566	0.02566	0.02566	0.02566	0.02566	0.1540
6	BA-DE WEIGHTED COST	LINE 4 X LINE 5	\$0.78	\$1.30	\$0.67	\$1.37	\$0.63	\$0.17	\$4.92
7	MARYLAND	WP 3.1, PG 1, LINES 2 THRU 7	\$30.32	\$48.06	\$23.62	\$37.82	\$34.64	\$14.17	\$188.63
8	BA-SOUTH WEIGHTING	WP 8.0, PG 1, LINE 26E	<u>0.16245</u>	0.16245	0.16245	<u>0.16245</u>	0.16245	0.16245	0.9747
9	BA-MD WEIGHTED COST	LINE 7 X LINE 8	\$4 .93	\$7.81	\$3.84	\$6.14	\$5.63	\$2.30	\$30.64
10	NEW JERSEY	WP 4.1, PG 1, LINES 2 THRU 7	\$28.25	\$45.75	\$23.73	\$42.04	\$33.09	\$9.50	\$182.36
11	BA-SOUTH WEIGHTING	WP 8.0, PG 1, LINE 26F	0.29196	0.29196	0.29196	0.29196	0.29196	0.29196	<u>1.7518</u>
12	BA-NJ WEIGHTED COST	LINE 10 X LINE 11	\$8.25	\$13.36	\$6.93	\$12.27	\$9.66	\$2.77	\$53.24
13	PENNSYLVANIA	WP 5.1, PG 1, LINES 2 THRU 7	\$30.62	\$49.03	\$26.11	\$43.76	\$33.03	\$7.38	\$1ö9.92
14	BA-SOUTH WEIGHTING	WP 8.0, PG 1, LINE 26G	0.29019	0.29019	0.29019	0.29019	<u>0.29019</u>	0.29019	<u>1.7411</u>
15	BA-PA WEIGHTED COST	LINE 13 X LINE 14	\$8.88	\$14.23	\$7.58	\$12 .70	\$9.58	\$2.14	\$55.11
16	VIRGINIA	WP 6.1, PG 1, LINES 2 THRU 7	\$29.78	\$47.39	\$22.66	\$40.78	\$30.96	\$6.46	\$178.03
17	BA-SOUTH WEIGHTING	WP 8.0, PG 1, LINE 26H	<u>0.15549</u>	0.15549	0.15549	0.15549	<u>0.15549</u>	<u>0.15549</u>	<u>0.9329</u>
18	BA-VA WEIGHTED COST	LINE 10 X LINE 11	\$4.63	\$7.37	\$3.52	\$6.34	\$4.81	\$1.00	\$27.68
19	WEST VIRGINIA	WP 7.1, PG 1, LINES 2 THRU 7	\$39.13	\$63.99	\$33.19	\$63.10	\$39.81	\$11.27	\$250.49
20	BA-SOUTH WEIGHTING	WP 8.0, PG 1, LINE 261	<u>0.03782</u>	0.03782	0.03782	0.03782	<u>0.03782</u>	0.03782	0.2269
21	BA-WV WEIGHTED COST	LINE 13 X LINE 14	\$1.48	\$2.42	\$1.26	\$2.39	\$1.51	\$0.43	\$9.47

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PHYSICAL COLLOCATION Verizon - Washington, DC FCC - 1

	<u>A</u>	<u>B</u>	<u>c</u>	<u>D</u>	E	<u>F</u>
	<u>ITEM</u>	SOURCE	LAND	BLDG	SWITCH EQPT.	TOTAL INVEST
1	TOTAL POWER PLANT UNIT INVESTMENT	WP 1.0, PG 3, LINE 10	-	-	\$221.40	\$221.40
2	EF&I FACTOR - FRC 377C	WP 8.0, PG 1, LINE 24C	•	-	2.7852	2.7852
3	INSTALLED INVESTMENT (NRC)	LINE 1 x LINE 2	-	-	\$616.64	\$616.64
4	UTILIZATION FACTOR	ENGINEERING	-	-	1.0000	1.0000
5	TOTAL IN-PLACE INVESTMENT	LINE 3 x LINE 4	-	-	\$616.64	\$616.64
6	LAND INVESTMENT FACTOR	WP 8.0, PG 1, LINE 22C	0.0092	-	-	0.0092
7	BUILDING INVESTMENT FACTOR	WP 8.0, PG 1, LINE 23C	-	0.1523	-	0.1523
8	LAND INVESTMENT	LINE 5E x LINE 6C	\$5.65		-	\$5.65
9	BUILDING INVESTMENT	LINE 5E x LINE 7D	-	\$93.90	-	\$93.90
10	TOTAL UNIT INVESTMENT	LINE 5E + LINE 8C + LINE 9D	\$5.65	\$93.90	\$616.64	\$716.19 ·
11	WEIGHTED UNIT INVESTMENT	INE 10 x WP 6.0, PG 1, LINE 26C	\$0.21	\$3.42	\$22.47	\$26.10

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PHYSICAL COLLOCATION Verizon - Washington, DC FCC - 1

	A	<u>B</u>	<u>C</u>	<u>D</u>	Ē	<u>F</u>
	ITEM	SOURCE	LAND	BLDG	CKT EQPT.	TOTAL INVEST
1	TOTAL UNIT INVESTMENT	WP 1.0, PG 2 LINE 10	\$5.65	\$93.90	\$616.64	\$716.19
2	DEPRECIATION	LINE 1 X WP 8.0 - ACF FACTOR	\$0.00	\$1.55	\$24.56	\$26.11
3	COST OF MONEY	LINE 1 X WP 8.0 - ACF FACTOR	\$0.64	\$8.08	\$33.85	\$42.56
4	INCOME TAX	LINE 1 X WP 8.0 - ACF FACTOR	\$0.34	\$4.26	\$17.89	\$22.49
5	MAINTENANCE	LINE 1 X WP 8.0 - ACF FACTOR	\$0.05	\$0.85	\$40.30	\$41.21
6	ADMINISTRATION	LINE 1 X WP 8.0 - ACF FACTOR	\$0.35	\$5.85	\$38.43	\$44.64
7	OTHER TAX	LINE 1 X WP 8.0 - ACF FACTOR	<u>\$0.16</u>	\$2.60	<u>\$1.79</u>	<u>\$4.55</u>
8	ANNUAL DIRECT COST	SUM (LINE 2 THRU LINE 7)	\$1.54	\$23.19	\$156.82	\$181.55
9	WEIGHTED UNIT INVESTMENT	LINE 8 x WP 8.0, PG 1, LINE 26C	\$0.06	\$0.85	\$5.71	\$6.62

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PHYSICAL COLLOCATION Verizon - Washington, DC FCC NO. 1

DC POWER COST DEVELOPMENT - LESS THAN OR EQUAL TO 60 AMPS

	DO FOWER COST DE	VELOPINENT - LEGS TIPM	OK EQUA	L 10 00 AIII C	<u>-</u>
	A	₿	Ē	ō	Ē
LINE NO.	<u>ITEM</u>	SOURCE	METRO	URBAN	SUBURBAN
	Microprocessor Diget (DUCC DAD)				
1	Microprocessor Plant (BUSS BAR) AMP	Engineering	5,000	2,600	2,600
2	Material	Engineering	\$27,154	\$23,879	\$23,879
3	Unit Investment Per AMP	(L2/L1)	\$5.43	\$9.18	\$9.18
4	Statewide Weighting	WP 8.0, Col C, Lns 27-30	0.5982	0.3750	0.0268
5	Statewide Unit Investment Per AMP	\$6.94	\$3.25	\$3.44	\$0.25
		<u> </u>			
	Rectifiers				
6	Quantity	Engineering	6	6	6
7 8	AMPS per unit	Engineering	400	200	200
9	Tot. AMPS Utilization	(L6 * L7) (L6-1) / L6)	2,400 83.33%	1,200 83.33%	1,200 83.33%
10	Material	Engineering	\$55,502	\$42,046	\$42,046
11	Total Investment	(L10 / L9)	\$66,602	\$50,455	\$50,455
12	Unit Investment Per AMP	(L11 / L8)	\$27.75	\$42.05	\$42.05
13	Statewide Weighting	WP 8.0, Col C, Lns 27-30	0.5982	0 3750	0.0268
14	Statewide Unit Investment Per AMP	\$33.49	\$16.60	\$15.77	\$1.13
	5 - 4 - 3				
1.5	<u>Batteries</u>	Familia	2	•	•
15 16	Strings AMPs per String	Engineering Engineering	3 688	3 310	3 310
17	Tot. AMPS	(L15 * L16)	2.064	930	930
18	Total Investment	Engineering	\$80,952	\$34,965	\$34,965
19	Unit Investment Per AMP	(L18 / L17)	\$39.22	\$37.60	\$37.60
20	Statewide Weighting	WP 8.0, Col C, Lns 27-30	0.5982	0.3750	0.0268
21	Statewide Unit Investment Per AMP	\$38.57	\$23.46	\$14.10	\$1.01
			ı		
	Automatic Breaker				
22	AMP per Breaker	Engineering	1,600	1,200	800
23	Total investment	Engineering	\$50,000	\$40,000	\$35,000
24 25	Unit Investment Per AMP Statewide Weighting	(L23 / L22) WP 8.0, Col C, Lns 27-30	\$31.25 0.5982	\$33.33 0.3750	\$43.75 0.0268
26	Statewide Unit Investment Per AMP	\$32.37	\$18.69	\$12.50	\$1.17
20	Otatewide Offit Albestiffer Fig. Albert	402.01	\$10.03	\$12.50	Ψ 1.17
	Power Distribution Service Cabinet				
27	Amps	Engineering	1,600	800	400
28	Material	Engineering	\$13,976	\$7,788	\$5,677
29	Unit Investment Per AMP	(L28 / L27)	\$8.74	\$9.74 0.2750	\$14.19
30	Statewide Weighting	WP 8.0, Col C, Lns 27-30	0.5982	0.3750	0.0268
31	Statewide Unit Investment Per AMP	\$9.26	\$5.23	\$3.65	\$0.38
	Emergency engine/turbine (auto start)				
32	AMP Capacity	Engineering	2,605	1,736	1,111
33	Utilization	Engineering	70%	70%	70%
34	Utilized AMPS	(L32 * L33)	1,824	1,215	778
35	Emerg. Engine Invest.	Engineering	\$130,765	\$78,249	\$53,871
36 37	Conduit/Emer Lights Total Investment	Engineering (L35 + L36)	\$45,629 \$176,394	\$30,487 \$108,736	\$23,332 \$77,203
38	Unit Investment Per AMP	(L37 / L34)	\$96.73	\$89.48	\$99.27
39	Statewide Weighting	WP 8.0, Col C, Lns 27-30	0.5982	0.3750	0.0268
40	Statewide Unit Investment Per AMP	\$94.08	\$57.87	\$33,55	\$2.66
	Battery Distribution Fuse Bay				
41	AMP Capacity	Engineering	800	800	800
42	Material	Engineering	\$5,355 \$6,60	\$5,355	\$5,355 \$6.60
43 44	Unit Investment Per AMP Statewide Weighting	(L42 / L41) WP 8.0, Col C, Lns 27-30	\$6.69 0.5982	\$6.69 0.3750	\$6.69 0.0268
45	Statewide Unit Investment Per AMP	\$6.69	\$4.00	\$2.51	\$0.18
73	Gratewide Office investifiers Fel AMP	1 40.00	₩ 7 ,00	₩ ८ .⊍ I	90 . 10
	Total Unit Investment - (Less than or				
46	Equal to 60 AMP's) - Sum Lines	\$221.40			
	(5C+14C+21C+26C+31C+40C+45C)				
	•				

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PHYSICAL COLLOCATION Verizon - Washington, DC FCC - 1

	A	<u>B</u>	<u>c</u>	Ũ	<u>E</u>	<u>F</u>
	<u>ITEM</u>	SOURCE	LAND	BLDG	SWITCH EQPT.	TOTAL INVEST
1	TOTAL POWER PLANT UNIT INVESTMENT	WP 1.1, PG 3, LINE 10	-	-	\$221.12	\$221.12
2	EF&I FACTOR - FRC 377C	WP 8.0, PG 1, LINE 24C	-	-	2.7852	2.7852
3	INSTALLED INVESTMENT (NRC)	LINE 1 x LINE 2	-	-	\$615.86	\$615.86
4	UTILIZATION FACTOR	ENGINEERING	-	-	1.0000	1.0000
5	TOTAL IN-PLACE INVESTMENT	LINE 3 x LINE 4	-	-	\$615.86	\$615.86
6	LAND INVESTMENT FACTOR	WP 8.0, PG 1, LINE 22C	0.0092	-	-	0.0092
7	BUILDING INVESTMENT FACTOR	WP 8.0, PG 1, LINE 23C	-	0.1523	•	0.1523
8	LAND INVESTMENT	LINE 5E x LINE 6C	\$5.64		•	\$5.64
9	BUILDING INVESTMENT	LINE 5E x LINE 7D	-	\$93.78	-	\$93.78
10	TOTAL UNIT INVESTMENT	LINE 5E + LINE 8C + LINE 9D	\$5.64	\$93.78	\$615.86	\$715.28
11	WEIGHTED UNIT INVESTMENT	INE 10 x WP 6.0, PG 1, LINE 26C	\$0.21	\$3.42	\$22.44	\$26.06

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PHYSICAL COLLOCATION Verizon - Washington, DC FCC - 1

	<u>A</u>	<u>B</u>	<u>C</u>	₫	<u>E</u>	<u>F</u>
	<u>ITEM</u>	SOURCE	LAND	BLDG	CKT EQPT.	TOTAL INVEST
1	TOTAL UNIT INVESTMENT	WP 1.1, PG 2 LINE 10	\$5.64	\$93.78	\$615.86	\$715.28
2	DEPRECIATION	LINE 1 X WP 8.0 - ACF FACTOR	\$0.00	\$1.55	\$24.53	\$26.07
3	COST OF MONEY	LINE 1 X WP 8.0 - ACF FACTOR	\$0.64	\$8.06	\$33.80	\$42.51
4	INCOME TAX	LINE 1 X WP 8.0 - ACF FACTOR	\$0.34	\$4.26	\$17.87	\$22.46
5	MAINTENANCE	LINE 1 X WP 8.0 - ACF FACTOR	\$0.05	\$0.85	\$40.25	\$41.16
6	ADMINISTRATION	LINE 1 X WP 8.0 - ACF FACTOR	\$0.35	\$5.84	\$38.38	\$44.58
7	OTHER TAX	LINE 1 X WP 8.0 - ACF FACTOR	<u>\$0.16</u>	<u>\$2.60</u>	<u>\$1.79</u>	<u>\$4.54</u>
8	ANNUAL DIRECT COST	SUM (LINE 2 THRU LINE 7)	\$1.54	\$23.16	\$156.62	\$181.31
9	WEIGHTED UNIT INVESTMENT	LINE 8 x WP 8.0, PG 1, LINE 26C	\$0.06	\$0.84	\$5.71	\$6.61

WORKPAPER 1.1 PAGE 3 OF 3

PHYSICAL COLLOCATION Verizon - Washington, DC FCC NO. 1

DC POWER COST DEVELOPMENT - GREATER THAN 60 AMPS

	<u></u>	<u>B</u>	c	D	Ē
LINE NO.	<u>ITEM</u>	SOURCE	METRO	URBAN	SUBURBAN
	Microprocessor Plant (BUSS BAR)				
1	AMP	Engineering	5,000	2,600	2,600
2	Material	Engineering	\$27,154	\$23,879	\$23,879
3	Unit Investment Per AMP	(L2 / L1)	\$5.43	\$9.18	\$9.18
4	Statewide Weighting	WP 8.0, Col C, Lns 27-30	0.5982	0.3750	0.0268
5	Statewide Unit Investment Per AMP	\$6.94	\$3.25	\$3.44	\$0.25
	Rectifiers				
6	Quantity	Engineering	6	6	6
7 8	AMPS per unit Tot, AMPS	Engineering (L6 * L7)	400 2,400	200 1,200	200 1,200
9	Utilization	(L6-1) / L6)	83.33%	83.33%	83.33%
10	Material	Engineering	\$55,502	\$42,046	\$42,046
11	Total investment	(L10 / L9)	\$66,602	\$50,455	\$50,455
12	Unit Investment Per AMP	(L11 / LB)	\$27.75	\$42.05	\$42.05
13	Statewide Weighting	WP 8.0, Col C, Lns 27-30	0.5982	0.3750	0.0268
14	Statewide Unit Investment Per AMP	\$33.49	\$16.60	\$1 5.77	\$1.13
	<u>Batteries</u>				
15	Strings	Engineering	3	3	3
16	AMPs per String	Engineering	688	310	310
17 18	Tot. AMPS Total Investment	(L15 * L16)	2,064	930	930
19	Unit Investment Per AMP	Engineering (L18 / L17)	\$80,952 \$39,22	\$34,965 \$37.60	\$34,965 \$37.60
20	Statewide Weighting	WP 8.0, Col C, Lns 27-30	0.5982	0.3750	0.0268
21	Statewide Unit Investment Per AMP	\$38.57	\$23.46	\$14.10	\$1.01
	Automatic Breaker				
22	AMP per Breaker	Engineering	1,600	1,200	800
23	Total Investment	Engineering	\$50,000	\$40,000	\$35,000
24	Unit Investment Per AMP	(L23 / L22)	\$31.25	\$33.33	\$43.75
25	Statewide Weighting	WP 8.0. Col C, Lns 27-30	0.5982	0.3750	0.0268
26	Statewide Unit Investment Per AMP	\$32.37	\$18.69	\$12.50	\$1.17
	Power Distribution Service Cabinet				
27	Amps	Engineering	1,600	800	400
28 29	Material Unit Investment Per AMP	Engineering	\$13,976	\$7,788	\$5,677
30	Statewide Weighting	(L28 / L27) WP 8.0, Col C, Lns 27-30	\$8.74 0.5982	\$ 9.74 0.3750	\$14.19 0.0268
31	Statewide Unit Investment Per AMP	\$9.26	\$5.23	\$3.65	\$0.38
	Emergency engine/hurbine (auto start)				
32	Emergency engine/turbine (auto start) AMP Capacity	Engineering	2,605	1,736	1,111
33	Utilization	Engineering	70%	70%	70%
34	Utilized AMPS	(L32 * L33)	1,824	1,215	778
35	Emerg. Engine Invest.	Engineering	\$130,765	\$78,249	\$53,871
36	Conduit/Emer Lights	Engineering	\$45,629	\$30,487	\$23,332
37	Total Investment	(L35 + L36)	\$176,394	\$108,736	\$77,203
38 39	Unit Investment Per AMP Statewide Weighting	(L37 / L34) WP 8.0, Col C, Lns 27-30	\$96.73 0.5982	\$89.48 0.3750	\$99.27 0.0268
40	Statewide Unit Investment Per AMP	\$94.08	\$57.87	\$33.55	\$2.66
	Power Plant Distribution Bay				
41 42	AMP Capacity	Engineering	2,600	1,200	1,200
42 43	Material Unit Investment Per AMP	Engineering (L42 / L41)	\$12,747 \$4.90	\$10,388 \$8.66	\$10,388 \$8.66
44	Statewide Weighting	WP 8.0, Col C, Lns 27-30	0.5982	0.3750	0.0268
45	Statewide Unit Investment Per AMP	\$6.41	\$2.93	\$3.25	\$0.23
	Total Unit Investment - (Greater than 60				
41	AMPs) -Sum Lines	\$221.12			
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	(5C+14C+21C+26C+31C+40C + 45C)				

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PHYSICAL COLLOCATION Verizon - Delaware FCC - 1

	A	<u>8</u>	<u>c</u>	D	<u>E</u>	<u>F</u>
	ITEM	SOURCE	LAND	BLDG	SWITCH EQPT.	TOTAL INVEST
1	TOTAL POWER PLANT UNIT INVESTMENT	WP 2.0, PG 3, LINE 10	-	-	\$247.50	\$247.50
2	EF&I FACTOR - FRC 377C	WP 8.0, PG 1, LINE 24D	-	-	2.7852	2.7852
3	INSTALLED INVESTMENT (NRC)	LINE 1 x LINE 2	-	-	\$689.35	\$689.35
4	UTILIZATION FACTOR	ENGINEERING	-	-	1.0000	1.0000
5	TOTAL IN-PLACE INVESTMENT	LINE 3 x LINE 4	-	-	\$689.35	\$689.35
6	LAND INVESTMENT FACTOR	WP 8.0, PG 1, LINE 22D	0.0094	-	-	0.0094
7	BUILDING INVESTMENT FACTOR	WP 8.0, PG 1, LINE 23D	-	0.1994	-	0.1994
8	LAND INVESTMENT	LINE 5E x LINE 6C	\$6.47		-	\$6.47
9	BUILDING INVESTMENT	LINE 5E x LINE 7D	-	\$137.48	-	\$137.48
10	TOTAL UNIT INVESTMENT	LINE 5E + LINE 8C + LINE 9D	\$6.47	\$137.48	\$689.35	\$833.30
11	WEIGHTED UNIT INVESTMENT	INE 10 x WP 8.0, PG 1, LINE 26D	\$0.17	\$3.53	\$17.69	\$21.38

WORKPAPER 2.0 PAGE 1 OF 3

PHYSICAL COLLOCATION Verizon - Delaware FCC - 1

	<u> </u>	В	<u>c</u>	Ď	<u>E</u>	<u>E</u>
	<u>ITEM</u>	SOURCE	LAND	BLDG	CKT EQPT.	TOTAL INVEST
1	TOTAL UNIT INVESTMENT	WP 2.0, PG 2 LINE 10	\$6.47	\$137.48	\$689.35	\$833.30
2	DEPRECIATION	LINE 1 X WP 8.0 - ACF FACTOR	\$0.00	\$2.94	\$27.41	\$30.35
3	COST OF MONEY	LINE 1 X WP 8.0 - ACF FACTOR	\$0.73	\$11.47	\$38.04	\$50.24
4	INCOME TAX	LINE 1 X WP 8.0 - ACF FACTOR	\$0.38	\$5.90	\$19.57	\$25.85
5	MAINTENANCE	LINE 1 X WP 8.0 - ACF FACTOR	\$0.17	\$3.67	\$49.09	\$52.93
6	ADMINISTRATION	LINE 1 X WP 8.0 - ACF FACTOR	\$0.19	\$4.00	\$20.06	\$24.25
7	OTHER TAX	LINE 1 X WP 8.0 - ACF FACTOR	<u>\$0.12</u>	<u>\$2.64</u>	<u>\$4.00</u>	<u>\$6.76</u>
8	ANNUAL DIRECT COST	SUM (LINE 2 THRU LINE 7)	\$1.59	\$30.62	\$158.17	\$190.37
9	WEIGHTED UNIT INVESTMENT	LINE 8 x WP 8.0, PG 1, LINE 26D	\$0.04	\$0.79	\$4.06	\$4.89

WORKPAPER 2.0 PAGE 3 OF 3

PHYSICAL COLLOCATION Verizon - Delaware FCC NO. 1

DC POWER COST DEVELOPMENT - LESS THAN OR EQUAL TO 60 AMPS

	<u>A</u>	<u>B</u>	Ē	Đ	£	E
LINE NO.	ITEM	SOURCE	METRO	URBAN	SUBURBAN	RURAL
	Microprocessor Plant (BUSS BAR)		5.000	0.000		
1 2	AMP Material	Engineering Engineering	5,000 \$37,154	2,600 \$23,879	2,600 \$23,879	600 \$18,349
3	Unit Investment Per AMP	(L2 / L1)	\$27,154 \$5.43	\$23,679 \$9.18	\$23,679 \$9.18	\$30.58
4	Statewide Weighting	WP 8.0, Col D, Lns 27-30	0.3027	0.3008	0.2759	0.1207
5	Statewide Unit Investment Per AMP	\$10.63	\$1.64	\$2.76	\$2.53	\$3.69
	Rectifiers					
6	Quantity	Engineering	6	6	6	7
7	AMPS per unit	Engineering	400	200	200	50
8	Tot. AMPS	(L6 * L7)	2,400	1,200	1,200	350
9	Utilization	(L6-1) / L6)	83.33%	83.33%	83.33%	85.71%
10	Material	Engineering	\$ 55,502	\$42,046	\$42,046	\$15,900
11 12	Total Investment	(L10 / L9)	\$66,602 \$27.75	\$50,455	\$50,455 643.05	\$18,550
13	Unit Investment Per AMP Statewide Weighting	(L11 / L8) WP 8.0, Col D, Lns 27-30	\$27.75 0.3027	\$42.05 0.300 8	\$42.05 0.2759	\$53.00 0.1207
14	Statewide Unit Investment Per AMP	\$39.05	\$8.40	\$12.65	\$11.60	\$6.40
	Batteries					
15	Strings	Engineering	3	3	3	2
16	AMPs per String	Engineering	688	310	310	310
17 18	Tot. AMPS	(L15 * L16)	2,064	930	930	620
19	Total Investment Unit Investment Per AMP	Engineering (L18 / L17)	\$80,952 \$39.22	\$34,965 \$37.60	\$34,965 \$37.60	\$23,310 \$37.60
20	Statewide Weighting	WP 8.0, Col D, Lns 27-30	0.3027	0.3008	0.2759	0.1207
21	Statewide Unit Investment Per AMP	\$38.09	\$11.87	\$11.31	\$10.37	\$4.54
	Automatic Breaker					
22	AMP per Breaker	Engineering	1,600	1,200	800	400
23	Total investment	Engineering	\$50,000	\$40,000	\$35,000	\$20,000
24	Unit Investment Per AMP	(L23 / L22)	\$31.25	\$33.33	\$43.75	\$50.00
25	Statewide Weighting	WP 8.0, Col D, Lns 27-30	0.3027	0.3008	0.2759	0.1207
26	Statewide Unit Investment Per AMP	\$37.59	\$9.46	\$10.03	\$12.07	\$6.04
	Power Distribution Service Cabinet					
27	Amps	Engineering	1,600	800	400	400
28	Material	Engineering	\$13,976	\$7,788	\$ 5,677	\$3,467
29	Unit Investment Per AMP	(L28 / L27)	\$8.74	\$9.74	\$14.19	\$8.67
30	Statewide Weighting	WP 8.0, Col D, Lns 27-30	0.3027	0.3008	0.2759	0.1207
31	Statewide Unit Investment Per AMP	\$10.53	\$2.64	\$2.93	\$3.92	\$1.05
22	Emergency engine/turbine (auto start)		0.000			
32 33	AMP Capacity	Engineering	2,605 70%	1,736 70%	1,111 70%	434 70%
33 34	Utilization Utilized AMPS	Engineering (L32 * L33)	70% 1,824	70% 1,215	70% 778	70% 304
35	Emerg. Engine Invest.	Engineering	\$130,765	\$78,249	\$53,871	\$41,874
36	Conduit/Emer Lights	Engineering	\$45,629	\$30,487	\$23,332	\$11,810
37	Total Investment	(L35 + L36)	\$176,394	\$108,736	\$77,203	\$53,684
38	Unit Investment Per AMP	(L37 / L34)	\$96.73	\$89.48	\$99.27	\$176.71
39	Statewide Weighting	WP 8.0, Col D, Lns 27-30	0.3027	0.3008	0.2759	0.1207
40	Statewide Unit Investment Per AMP	\$104.91	\$29.28	\$26.92	\$27.39	\$21.33
	Battery Distribution Fuse Bay					
41	AMP Capacity	Engineering	800	800	800	800
42	Material	Engineering	\$5,355	\$5,355	\$5,355	\$5,355
43 44	Unit Investment Per AMP Statewide Weighting	(L42 / L41) WP 8.0, Col D, Lns 27-30	\$6,69 0,3027	\$6.69 0.3008	\$6.69 0.2750	\$6.69 0.1207
			0.3027		0.2759	0.1207
45	Statewide Unit Investment Per AMP	\$6.69	\$2.03	\$2.01	\$1 85	\$0.81
	Total Unit Investment - (Less than or					
46	Equal to 60 AMP's) - Sum Lines	\$247.50				
	(5C+14C+21C+26C+31C+40C+45C)					

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PHYSICAL COLLOCATION Verizon - Delaware FCC - 1

	A	<u>B</u>	<u>c</u>	<u>D</u>	E	Ē
	<u>ITEM</u>	SOURCE	LAND	BLDG	SWITCH EQPT.	TOTAL INVEST
1	TOTAL POWER PLANT UNIT INVESTMENT	WP 2.0, PG 3, LINE 10	-	-	\$249.29	\$249.29
2	EF&I FACTOR - FRC 377C	WP 8.0, PG 1, LINE 24D	-	-	2.7852	2.7852
3	INSTALLED INVESTMENT (NRC)	LINE 1 x LINE 2	-	-	\$694.34	\$694.34
4	UTILIZATION FACTOR	ENGINEERING	-	-	1.0000	1.0000
5	TOTAL IN-PLACE INVESTMENT	LINE 3 x LINE 4	-	-	\$694.34	\$694.34
6	LAND INVESTMENT FACTOR	WP 8.0, PG 1, LINE 22D	0.0094	-	-	0.0094
7	BUILDING INVESTMENT FACTOR	WP 8.0, PG 1, LINE 23D	-	0.1994	-	0.1994
8	LAND INVESTMENT	LINE 5E x LINE 6C	\$6.52		-	\$6.52
9	BUILDING INVESTMENT	LINE 5E x LINE 7D	•	\$138.48	-	\$138.48
10	TOTAL UNIT INVESTMENT	LINE 5E + LINE 8C + LINE 9D	\$6.52	\$138.48	\$694.34	\$839.33
11	WEIGHTED UNIT INVESTMENT	INE 10 x WP 8.0, PG 1, LINE 26D	\$0.17	\$3.55	\$17.82	\$21.54

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PHYSICAL COLLOCATION Verizon - Delaware FCC - 1

	<u>A</u>	В	<u>c</u>	<u>D</u>	Ē	<u>F</u>
	<u>ITEM</u>	SOURCE	LAND	BLDG	CKT EQPT.	TOTAL INVEST
1	TOTAL UNIT INVESTMENT	WP 2.0, PG 2 LINE 10	\$6.52	\$138.48	\$694.34	\$839.33
2	DEPRECIATION	LINE 1 X WP 8.0 - ACF FACTOR	\$0.00	\$2.96	\$27.60	\$30.57
3	COST OF MONEY	LINE 1 X WP 8.0 - ACF FACTOR	\$0.74	\$11.55	\$38.31	\$50.60
4	INCOME TAX	LINE 1 X WP 8.0 - ACF FACTOR	\$0.38	\$5.94	\$19.71	\$26.03
5	MAINTENANCE	LINE 1 X WP 8.0 - ACF FACTOR	\$0.17	\$3.70	\$49.44	\$53.31
6	ADMINISTRATION	LINE 1 X WP 8.0 - ACF FACTOR	\$0.19	\$4.03	\$20.21	\$24.43
7	OTHER TAX	LINE 1 X WP 8.0 - ACF FACTOR	<u>\$0.13</u>	<u>\$2.66</u>	<u>\$4.03</u>	<u>\$6.81</u>
8	ANNUAL DIRECT COST	SUM (LINE 2 THRU LINE 7)	\$1.60	\$30.84	\$159.31	\$191.75
9	WEIGHTED UNIT INVESTMENT	LINE 8 x WP 8.0, PG 1, LINE 26D	\$0.04	\$0.79	\$4.09	\$4.92

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PHYSICAL COLLOCATION Verizon - Delaware FCC NO. 1

DC POWER - GREATER THAN 60 AMPS

	<u> </u>	MEN CHERTEN MAIL	<u> </u>			
	A	B	<u>c</u>	D	Ē	<u>F</u>
LINE NO.	ITEM	SOURCE	METRO	URBAN	SUBURBAN	RURAL
	Microprocessor Diont (DLICC DAD)					
1	Microprocessor Plant (BUSS BAR) AMP	Engineering	5,000	2,600	2,600	600
2	Material	Engineering	\$27,154	\$23,879	\$23. 8 79	\$18,349
3	Unit Investment Per AMP	(L2 / L1)	\$5.43	\$9.18	\$ 9.18	\$30.58
4	Statewide Weighting	WP 8.0, Col D, Lns 27-30	0.3027	0.3008	0.2759	0.1207
5	Statewide Unit Investment Per AMP	\$10.63	\$1.64	\$2.76	\$2.53	\$3.69
J	Statewide Stiff investment 7 of 7441	\$10.00	41.04	4 2.70	\$2.55	\$3.0 3
_	Rectifiers		_	_	_	_
6	Quantity	Engineering	6	6	6	7
7	AMPS per unit	Engineering	400	200	200	50
8 9	Tot. AMPS Utilization	(L6 * L7) (L6-1) / L6)	2,400 83.33%	1,200 83,33%	1,200 83,33%	350 85.71%
10	Material	Engineering	\$55,502	\$42,046	\$42,046	\$15,900
11	Total Investment	(L10 / L9)	\$66,602	\$50,455	\$50,455	\$18,550
12	Unit Investment Per AMP	(L11 / L8)	\$27.75	\$42.05	\$42.05	\$53.00
13	Statewide Weighting	WP 8.0, Col D. Lns 27-30	0.3027	0.3008	0.2759	0.1207
14	Statewide Unit Investment Per AMP	\$39.05	\$8.40	\$12.65	\$11.60	\$6.40
	Ratteries					
15	<u>Batteries</u>	Endungering	3	3	3	2
16	Strings AMPs per String	Engineering Engineering	688	3 310	310	310
17	Tot. AMPS	(L15 * L16)	2,064	930	930	620
18	Total Investment	Engineering	\$80,952	\$34,965	\$34,965	\$23,310
19	Unit Investment Per AMP	(L18/L17)	\$39.22	\$37.60	\$37.60	\$37.60
20	Statewide Weighting	WP 8.0, Cal D. Lns 27-30	0.3027	0.3008	0.2759	0.1207
21	Statewide Unit Investment Per AMP	\$38.09	\$11.87	\$11.31	\$10.37	\$4.54
	Automatic Procker					
20	Automatic Breaker	Sasin araina	1.000	+ 200	900	400
22 23	AMP per Breaker Total Investment	Engineering Engineering	1,600 \$50,000	1,200 \$40,000	800 \$35,000	400 \$20,000
24	Unit Investment Per AMP	(L23 / L22)	\$30,000 \$31.25	\$33.33	\$43.75	\$50.00
25	Statewide Weighting	WP 8.0, Col D, Lns 27-30	0.3027	0.3008	0.2759	0.1207
26	Statewide Unit Investment Per AMP	\$37.59	\$9.46	\$10.03	\$12.07	\$6.04
		<u> </u>				
	Power Distribution Service Cabinet					
27	Amps	Engineering	1,600	800	400	400
28 29	Material	Engineering	\$13,976	\$7,788	\$5,677	\$3,467
30	Unit Investment Per AMP Statewide Weighting	(L28 / L27) WP 8.0, Col D, Lns 27-30	\$8.74 0.3027	\$9.74 0.3008	\$14.19 0.2759	\$8.67 0.1207
31		\$10.53				
31	Statewide Unit Investment Per AMP	\$10.53	\$2.64	\$2.93	\$3.92	\$1.05
	Emergency engine/turbine (auto start)					
32	AMP Capacity	Engineering	2,605	1,736	1,111	434
33	Utilization	Engineering	70%	70%	70%	70%
34	Utilized AMPS	(L32 * L33)	1,824	1,215 \$78,249	778	304
35 36	Emerg, Engine Invest, Conduit/Emer Lights	Engineering Engineering	\$130,765 \$45,629	\$76,249 \$30,487	\$53,871 \$23,332	\$41,874 \$11,810
37	Total Investment	(L35 + L36)	\$176,394	\$108,736	\$77,203	\$53,684
38	Unit Investment Per AMP	(L37 / L34)	\$96.73	\$89.48	\$99.27	\$176.71
39	Statewide Weighting	WP 8.0, Col D, Lns 27-30	0.3027	0.3008	0.2759	0.1207
40	Statewide Unit Investment Per AMP	\$104.91	\$29.28	\$26.92	\$27.39	\$21.33
	B					
	Power Plant Distribution Bay					_
41	AMP Capacity	Engineering	2,600	1,200	1,200	300
42	Material	Engineering	\$12,747	\$10,388	\$10,388	\$4,993
43 44	Unit Investment Per AMP	(L42 / L41) WP 8.0, Col D, Lns 27-30	\$4.90 0.2027	\$8.66 0.2009	\$8.66	\$16.64
44	Statewide Weighting Statewide Unit Investment Per AMP	\$8.49	0.3027 \$1,48	0.3008 \$2.60	0.2759 \$2.39	9.1207 \$2.01
40	Giziewide Gint myestment Fet AWP	30.43	#1,40	32.00	44.33	42.UI
	Total Unit Investment - (Less than or					
4 6	Equal to 60 AMP's) - Sum Lines	\$249.29				
	/EC+14C+01C+0EC+01C+40C+4EC\					

(5C+14C+21C+26C+31C+40C+45C)

WORKPAPER 3.0 PAGE 2 OF 3

PHYSICAL COLLOCATION Verizon - Maryland FCC - 1

	A	<u>B</u>	<u>c</u>	<u>D</u>	<u>E</u>	<u>E</u>
	ITEM	SOURCE	LAND	BLDG	SWITCH EQPT.	TOTAL INVEST
1 TO	OTAL POWER PLANT UNIT INVESTMENT	WP 3.1, PG 3, LINE 10	-	-	\$248.71	\$248.71
2 E	F&I FACTOR - FRC 377C	WP 8.0, PG 1, LINE 24E	-	-	2.7852	2.7852
3 IN	STALLED INVESTMENT (NRC)	LINE 1 x LINE 2	-	-	\$692.71	\$692.71
4 U	TILIZATION FACTOR	ENGINEERING	-	-	1.0000	1.0000
5 TC	OTAL IN-PLACE INVESTMENT	LINE 3 x LINE 4	-	-	\$692.71	\$692.71
6 LA	AND INVESTMENT FACTOR	WP 8.0, PG 1, LINE 22E	0.0078	-	-	0.0078
7 Bl	JILDING INVESTMENT FACTOR	WP 8.0, PG 1, LINE 23E	-	0.1470	-	0.1470
8 LA	AND INVESTMENT	LINE 5E x LINE 6C	\$5.40		-	\$5.40
9 BL	JILDING INVESTMENT	LINE 5E x LINE 7D	-	\$101.82	-	\$101.82
10 TC	OTAL UNIT INVESTMENT	LINE 5E + LINE 8C + LINE 9D	\$5.40	\$101.82	\$692.71	\$799.93
11 W	EIGHTED UNIT INVESTMENT	INE 10 x WP 8.0, PG 1, LINE 26E	\$0.88	\$16.54	\$112.53	\$129.95

WORKPAPER 3.0 PAGE 1 OF 3

PHYSICAL COLLOCATION Verizon - Maryland FCC - 1

	<u>A</u>	₽	<u>C</u>	<u>D</u>	Ē	<u>F</u>
	ITEM	SOURCE	LAND	BLDG	CKT EQPT.	TOTAL INVEST
1	TOTAL UNIT INVESTMENT	WP 3.0, PG 2 LINE 10	\$5.40	\$101.82	\$692.71	\$799.93
2	DEPRECIATION	LINE 1 X WP 8.0 - ACF FACTOR	\$0.00	\$2.24	\$27.79	\$30.04
3	COST OF MONEY	LINE 1 X WP 8.0 - ACF FACTOR	\$0.61	\$8.49	\$38.50	\$47.60
4	INCOME TAX	LINE 1 X WP 8.0 - ACF FACTOR	\$0.30	\$4.17	\$18.92	\$23.39
5	MAINTENANCE	LINE 1 X WP 8.0 - ACF FACTOR	\$0.14	\$2.62	\$34.70	\$37.45
6	ADMINISTRATION	LINE 1 X WP 8.0 - ACF FACTOR	\$0.23	\$4.37	\$29.71	\$34.31
7	OTHER TAX	LINE 1 X WP 8.0 - ACF FACTOR	<u>\$0.09</u>	<u>\$1.78</u>	<u>\$12.16</u>	\$14.03
8	ANNUAL DIRECT COST	SUM (LINE 2 THRU LINE 7)	\$1.37	\$23.67	\$161.78	\$186.83
9	WEIGHTED UNIT INVESTMENT	LINE 8 x WP 8.0, PG 1, LINE 26E	\$0.22	\$3.85	\$26.28	\$30.35

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PHYSICAL COLLOCATION Verizon - Maryland FCC NO. 1

	A	B	<u>c</u>	<u>D</u>	Ē	Ε
LINE NO.	ITEM	SOURCE	METRO	URBAN	SUBURBAN	RURAL
	Microprocessor Plant (BUSS BAR) AMP	Fariancian	E 000	2.000	2 000	500
1 2	Material	Engineering Engineering	5,000 \$27,154	2,600 \$23,879	2,600 \$23,879	600 \$18,349
3	Unit Investment Per AMP	(L2 / L1)	\$5.43	\$9.18	\$9.18	\$30.58
4	Statewide Weighting	WP 8.0, Col E, Lns 27-30	0.1763	0.5162	0.1698	0.1377
5	Statewide Unit Investment Per AMP	\$11.47	\$0.96	\$4.74	\$1.56	\$4.21
	Rectifiers					
6	Quantity	Engineering	6	6	6	7
7	AMPS per unit	Engineering	400	200	200	50
8	Tot. AMPS	(L6 * L7)	2,400	1,200	1,200	350
9	Utilization	(L6-1) / L6)	83.33%	83.33%	83.33%	85.71%
10	Material	Engineering	\$55,502	\$42,046	\$42,046	\$15,900
11	Total Investment	(L10 / L9)	\$66,602	\$50.455	\$50,455	\$18,550
12 13	Unit Investment Per AMP	(L11 / L8)	\$27.75	\$42.05	\$42.05	\$53.00
	Statewide Weighting	WP 8.0, Col E, Lns 27-30	0.1763	0.5162	0.1698	0.1377
14	Statewide Unit Investment Per AMP	\$41.03	\$4.89	\$21.70	\$7.14	\$ 7. 3 0
15	Batteries Strings	Engineering	3	3	3	2
16	AMPs per String	Engineering Engineering	688	310	3 310	310
17	Tot. AMPS	(L15 * L16)	2,064	930	930	620
18	Total Investment	Engineering	\$80,952	\$34.965	\$34,965	\$23,310
19	Unit Investment Per AMP	(L18 / L17)	\$39.22	\$37.60	\$37.60	\$37.60
20	Statewide Weighting	WP 8.0, Col E, Lns 27-30	0.1763	0.5162	0.1698	0.1377
21	Statewide Unit Investment Per AMP	\$37.88	\$6.91	\$19.41	\$6.38	\$5.18
•	Automatic Breaker					
22	AMP per Breaker	Engineering	1,600	1,200	800	400
23	Total Investment	Engineering	\$50,000	\$40,000	\$35,000	\$20,000
24	Unit Investment Per AMP	(L23 / L22)	\$31.25	\$33.33	\$43.75	\$50.00
25	Statewide Weighting	WP 8.0, Col E, Lns 27-30	0.1763	0.5162	0.1698	0.1377
26	Statewide Unit Investment Per AMP	\$37.03	\$5 .51	\$17.21	\$7.43	\$6.89
0.7	Power Distribution Service Cabinet					
27	Amps	Engineering	1,600	800	400	400
28	Material	Engineering	\$13,976	\$7,788	\$5,677	\$3,467
29	Unit Investment Per AMP	(L28 / L27)	\$8.74	\$9.74	\$14.19	\$8.67
30 31	Statewide Weighting Statewide Unit Investment Per AMP	WP 8.0, Col E, Lns 27-30 \$10.17	0.1763 \$1.54	0.5162 \$5.03	<u>0.1698</u> \$2.41	<u>0.1377</u> \$1.19
	Emorgonay organo/turbino (nuto etect)	<u></u>				
32	Emergency engine/turbine (auto start)	Encionation	2.605	1 725	4 444	424
33	AMP Capacity Utilization	Engineering	2,605 70%	1,736 70%	1,111 70%	434 70%
34	Utilized AMPS	Engineering (L32 * L33)	1,824	1,215	778	304
35	Emerg. Engine Invest.	Engineering	\$130,765	\$78,249	\$53,871	\$41,874
36	Conduit/Erner Lights	Engineering	\$45,629	\$30,487	\$23,332	\$11,810
37	Total Investment	(L35 + L36)	\$176,394	\$108,736	\$77,203	\$53,684
38	Unit Investment Per AMP	(L37 / L34)	\$96.73	\$89,48	\$99.27	\$176.71
39	Statewide Weighting	WP 8.0, Col E, Lns 27-30	0.1763	0.5162	0.1698	0.1377
40	Statewide Unit Investment Per AMP	\$104.43	\$17.05	\$46.19	\$16.86	\$24.33
	Battery Distribution Fuse Bay					
41	AMP Capacity	Engineering	800	800	800	800
42	Material	Engineering	\$5,35 5	\$ 5,3 5 5	\$5,355	\$5,355
43	Unit Investment Per AMP	(L42 / L41)	\$6.69	\$6.69	\$6.69	\$6.69
44	Statewide Weighting	WP 8.0. Col E, Lns 27-30	0.1763	0.5162	0.1698	0.1377
45	Statewide Unit Investment Per AMP	\$6.69	\$1.18	\$3.46	\$1.14	\$0.92
	Total Unit Investment - (Less than or					
46	Equal to 60 AMP's) - Sum Lines	\$248.71				
	(5C+14C+21C+26C+31C+40C+45C)	<u> </u>				

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PHYSICAL COLLOCATION Verizon - Maryland FCC - 1

	A	<u>B</u>	<u>c</u>	<u>D</u>	<u>E</u>	<u>F</u>
	<u>ITEM</u>	SOURCE	LAND	BLDG	SWITCH EQPT.	TOTAL INVEST
1	TOTAL POWER PLANT UNIT INVESTMENT	WP 3.0, PG 3, LINE 10	-	-	\$251.11	\$251.11
2	EF&I FACTOR - FRC 377C	WP 8.0, PG 1, LINE 24E	-	-	2.7852	2.7852
3	INSTALLED INVESTMENT (NRC)	LINE 1 x LINE 2	-	-	\$699.40	\$699.40
4	UTILIZATION FACTOR	ENGINEERING	-	-	1.0000	1.0000
5	TOTAL IN-PLACE INVESTMENT	LINE 3 x LINE 4	-	-	\$699.40	\$699.40
6	LAND INVESTMENT FACTOR	WP 8.0, PG 1, LINE 22E	0.0078	-	-	0.0078
7	BUILDING INVESTMENT FACTOR	WP 8.0, PG 1, LINE 23E	-	0.1470	-	0.1470
8	LAND INVESTMENT	LINE 5E x LINE 6C	\$5.45		-	\$5.45
9	BUILDING INVESTMENT	LINE 5E x LINE 7D	-	\$102.80	-	\$102.80
10	TOTAL UNIT INVESTMENT	LINE 5E + LINE 8C + LINE 9D	\$5.45	\$102.80	\$699.40	\$807.65
11	WEIGHTED UNIT INVESTMENT	INE 10 x WP 8.0, PG 1, LINE 26E	\$0.89	\$16.70	\$113.62	\$131.20

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PHYSICAL COLLOCATION Verizon - Maryland FCC - 1

	<u>A</u>	<u>B</u>	<u>c</u>	Ō	Ē	<u>F</u>
	<u>ITEM</u>	SOURCE	LAND	BLDG	CKT EQPT.	TOTAL INVEST
1	TOTAL UNIT INVESTMENT	WP 3.0, PG 2 LINE 10	\$5.45	\$102.80	\$699.40	\$807.65
2	DEPRECIATION	LINE 1 X WP 8.0 - ACF FACTOR	\$0.00	\$2.26	\$28.06	\$30.32
3	COST OF MONEY	LINE 1 X WP 8.0 - ACF FACTOR	\$0.62	\$8.57	\$38.87	\$48.06
4	INCOME TAX	LINE 1 X WP 8.0 - ACF FACTOR	\$0.30	\$4.21	\$19.10	\$23.62
5	MAINTENANCE	LINE 1 X WP 8.0 - ACF FACTOR	\$0.14	\$2.64	\$35.03	\$37.82
6	ADMINISTRATION	LINE 1 X WP 8.0 - ACF FACTOR	\$0.23	\$4.41	\$30.00	\$34.64
7	OTHER TAX	LINE 1 X WP 8.0 - ACF FACTOR	<u>\$0.10</u>	<u>\$1.80</u>	\$12.27	<u>\$14.17</u>
8	ANNUAL DIRECT COST	SUM (LINE 2 THRU LINE 7)	\$1.39	\$23.90	\$163.34	\$188.63
9	WEIGHTED UNIT INVESTMENT	LINE 8 x WP 8.0, PG 1, LINE 26E	\$0.23	\$3.88	\$26.53	\$30.64

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PHYSICAL COLLOCATION Verizon - Maryland FCC NO. 1

DC POWER - GREATER THAN 60 AMPS

	<u> </u>	<u>B</u>	Ē	Ð	Ē	Ē
LINE NO.	<u>ITEM</u>	SOURCE	METRO	URBAN	SUBURBAN	RURAL
	Microprocessor Plant (BUSS BAR)					
1	AMP	Engineering	5,000	2,600	2,600	600
2	Material	Engineering	\$27,154	\$23,879	\$23,879	\$18,349
3	Unit Investment Per AMP	(L2 / L1)	\$5.43	\$9.18	\$9.18	\$30.58
4	Statewide Weighting	WP 8.0, Cal E, Lns 27-30	0.1763	0.5162	0.1698	0.1377
5	Statewide Unit Investment Per AMP	\$11.47	\$0.96	\$4.74	\$1.56	\$4.21
	Rectifiers					
6	Quantity	Engineering	6	6	6	7
7	AMPS per unit	Engineering	400	200	200	50
8	Tot. AMPS	(L6 * L7)	2,400	1,200	1,200	350
9	Utilization	(L6-1) / L6)	83 33%	83.33%	83.33%	85.71%
10	Material	Engineering	\$55,502	\$42,046	\$42,046	\$15,900
11	Total investment	(L10 / L9)	\$66,602	\$50,455	\$50,455	\$18,550
12 13	Unit Investment Per AMP	(L11 / L8)	\$27.75	\$42.05 0.5163	\$42.05	\$53.00 0.1377
	Statewide Weighting	WP 8.0, Col E, Lns 27-30	0.1763	0.5162	0.1698	<u>0.1377</u>
14	Statewide Unit Investment Per AMP	\$41.03	\$4.89	\$ 21.70	\$7.14	\$7.30
	Batteries					
15	Strings	Engineering	3	3	3	2
16	AMPs per String	Engineering	688	310	310	310
17 18	Tot, AMPS Total Investment	(L15 * L16)	2,064 \$80,952	930 \$34,965	930 \$34,965	620 \$23,310
19	Unit Investment Per AMP	Engineering (L18 / L17)	\$39.22	\$34,500 \$37.60	\$37.60	\$23,310 \$37.60
20	Statewide Weighting	WP 8.0, Cal E, Lns 27-30	0.1763	0 5162	0.1698	0.1377
21	Statewide Unit Investment Per AMP	\$37.88	\$6.91	\$19.41	\$6.38	\$5.18
	Automotic Becker					
00	Automatic Breaker	-	4.000	4.000		400
22	AMP per Breaker	Engineering	1,600	1,200	800	400
23 24	Total Investment Unit Investment Per AMP	Engineering (L23 / L22)	\$50,000 \$31.25	\$40,000 \$33.33	\$35,000 \$43.75	\$20,000 \$50.00
25	Statewide Weighting	WP 8.0, Col E, Lns 27-30	0.1763	0.5162	0.1698	0.1377
26	Statewide Unit Investment Per AMP	\$37.03	\$5.51	\$17.21	\$7.43	\$6.89
	Power Distribution Service Cabinet					
27 28	Amps Metatrial	Engineering	1,600	800 £7.789	400 #5.677	400
	Material	Engineering	\$13,976	\$7,788	\$5,677	\$3,467
29 30	Unit Investment Per AMP Statewide Weighting	(L28 / L27) WP 8.0, Col E, Lns 27-30	\$8.74	\$9.74	\$14.19 0.1608	\$8.67
31	Statewide Unit Investment Per AMP	\$10.17	0.1763 \$1.54	<u>0.5162</u> \$5 03	0.1698 \$2.41	0.1377 \$1.19
37	Statewise Dritt (1) Pestilleric Fel Alli	\$10.11	ψ1.54	4 5 05	Ψ2.71	9 1.13
	Emergency engine/turbine (auto start)					
32	AMP Capacity	Engineering	2,605	1,736	1,111	434
33	Utilization	Engineering	70%	70%	70%	70%
34	Utilized AMPS	(L32 * L33)	1,824	1,215	778	304
35	Emerg. Engine Invest.	Engineering	\$130,765	\$78,249	\$53,871	\$41,874
36	Conduit/Emer Lights	Engineering	\$45,629	\$30,487	\$23,332	\$11,810
37	Total Investment	(L35 + L36)	\$176,394	\$108,736	\$77,203	\$53,684
38	Unit Investment Per AMP	(L37 / L34)	\$96.73	\$89.48	\$99.27	\$176.71
39	Statewide Weighting	WP 8.0. Col E, Lns 27-30	0.1763	0.5162	0.1698	0.1377
40	Statewide Unit Investment Per AMP	\$104.43	\$17.05	\$46.19	\$16.86	\$24.33
	Power Plant Distribution Bay					
41	AMP Capacity	Engineering	2,600	1,200	1,200	300
42	Material	Engineering	\$12,747	\$10,388	\$10,388	\$4,993
43	Unit Investment Per AMP	(L42 / L41)	\$4.90	\$8.66	\$8.66	\$16.64
44	Statewide Weighting	WP 8.0, Col E, Lns 27-30	0.1763	0.5162	0.1698	0.1377
45	Statewide Unit Investment Per AMP	\$9.09	\$0.86	\$4.47	\$1.47	\$2.29

Total Unit Investment - (Greater than 60

AMPs) -Sum Lines

\$251.11

(5C+14C+21C+26C+31C+40C + 45C)

46